Quick Fact Sheet
# Site Master™ MS2085A/MS2089A
## Cable & Antenna Analyzer | Spectrum Analyzer
5 kHz to 4 GHz / 6 GHz                    9 kHz to 4 GHz / 6 GHz
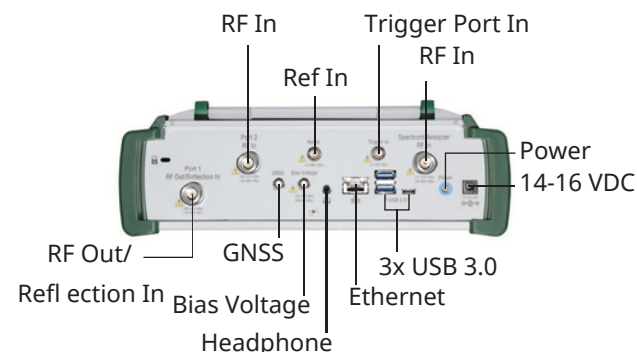
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## Introduction

Anritsu is proud to introduce its eighth generation compact handheld cable and antenna analyzer with spectrum analyzer for installation and maintenance of wireless networks. With frequency coverage up to 6 GHz, the new Site Master MS2085A/89A completely redefi nes the standards for portable handheld analyzers, setting another new industry benchmark for performance and accuracy. They feature the highest performance and the most capabilities ever offered by Anritsu in a compact handheld tester since introducing its fi rst line sweeper in 1995.
Key features include both traditional swept and real-time spectrum analysis capabilities, IQ capture and streaming, and built-in PDF report generation. The new MS2085A/89A is the culmination of over 60 years of microwave test and measurement equipment development, using the very latest technologies to deliver accuracy and precision in measurements previously reserved only for benchtop instruments.

## Spectrum Analyzer Highlights

• 5GNR FDD/TDD FR1 Analyzer • LTE FDD and TDD Analyzer • Real-Time Spectrum Analyzer • Channel Scanner • Spectrogram • Gated Sweep • AM/FM Audio Analysis • Field Strength • EIRP • Occupied Bandwidth • Channel Power
• High Accuracy Power

• Adjacent Channel Power
• Spectral Emissions Mask
• Signal Strength and RSSI
• Carrier Aggregation
• Coverage Mapping in SPA, 5GNR, and LTE
• Interference Finder
• Carrier-to-Interference
• WCDMA Analyzer
• Trace Recording/Playback
• IQ Waveform Capture/Streaming
Measurements (external sensor sold separately)

## Cable Antenna Analyzer Highlights

• Calibration Type: OSL, InstaCal™ and FlexCal™

• Calibration Methods: OSL
   OSL + Trans (USB Sensor)
   OSL + Trans (2-Port)
   iOSL
   iOSL + Trans (USB Sensor)
   iOSL + Trans (2-Port)
   Trans (USB Sensor)
   Trans (2-Port)

• Refl ection Measurements:
Return Loss (RL)
Cable Loss
VSWR
Smith Chart
1-Port Phase
TDR (Ohm/Linear)
Distance-to- Fault (RL, VSWR)

• Transmission Measurements:
   Transmission (USB Sensor)
   Transmission (2-Port)

• Certifi ed Line Sweeping Training

• Anritsu Remote and Report Tools (ARRT)

• Display: Single or Horizontal Split Measurement

• Built-in PDF Report Generator

• Sweep Speed: 350 µs/data point, fast sweep rate, typical

• Battery Life: Up to 9 hours*

RF In          Trigger Port In
                    RF In
      Ref In
                Power
                14-16 VDC
RF Out/    GNSS
Refl ection In  Bias Voltage  3x USB 3.0
                            Ethernet
        Headphone

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# Site Master™ MS2085A/MS2089A
## Cable & Antenna Analyzer || Spectrum Analyzer
5 kHz to 4 GHz / 6 GHz || 9 kHz to 4 GHz / 6 GHz

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## Key Specifications

| Cable & Antenna Analyzer | |
|---|---|
| Frequency | 5 kHz up to 6 GHz |
| Sweep Time | 350 µs/data point, RF immunity low* |
| Corrected Directivity | > 40 dB, typical, InstaCal™ Calibration |

| Spectrum Analyzer | |
|---|---|
| Frequency | 9 kHz up to 6 GHz |
| Sweep Speed | 45 GHz/s (Option 102) |
| Dynamic Range | >106 dB minimum at 2.4 GHz, 2/3 (TOI-DANL) in 1 Hz RBW |
| DANL | –167 dBm Typical with Preamp On |
| Phase Noise | –123 dBc/Hz, 1 GHz, 1 MHz offset, typical |

| General | |
|---|---|
| Connectivity | Ethernet, Wi-Fi, USB |
| Display | 10.1-inch capacitive touchscreen, 1280 x 800 resolution |
| Operating Temperature | –10 ℃ to 55 ℃ |
| Battery Life | 9 hours operation* |
| Dimensions | 290 mm x 212 mm x 96 mm (11.4 in x 8.3 in x 3.7 in) |
| Weight | MS2085A-0804, 0806: 3.1 kg (6.83 lb), without Option 21<br>MS2085A-0804, 0806: 3.8 kg (8.39 lb) with Option 21<br>MS2089A-0704, 0804, 0706, 0806: 3.8 kg (8.39 lb) with Option 21 |

## MS2085A Instrument Options

| Option Number | Description |
|---|---|
| MS2085A          MS2085A | Site Master 4 GHz (requires Option 804) Site Master 6 GHz (requires |
| MS2085A-0804 | Option 806) Cable & Antenna Analyzer, 5 kHz to 4 GHz Cable & Antenna |
| MS2085A-0806 | Analyzer, 5 kHz to 6 GHz Time Domain Reflectometry (TDR) |
| MS2085A-0003* | Measurement Secure Communications High Accuracy Power Meter |
| MS2085A-0017 | (requires USB sensor, sold separately) 2-port Transmission |
| MS2085A-0019* | Measurement GNSS Receiver (requires GNSS antenna) |
| MS2085A-0021 | |
| MS2085A-0031* | Accredited Calibration to ISO17025 and ANSI/NCSL Z540-1<br>(xxxx is the frequency option number) |
| MS2085A-xxxx-0097 | Standard Calibration to ISO17025 and ANSI/NCSL Z540-1<br>(xxxx is the frequency option number) |
| MS2085A-xxxx-0098 | Premium Calibration to ISO17025 and ANSI/NCSL Z540-1 plus test data<br>(xxxx is the frequency option number) |
| MS2085A-xxxx-0099 | |
| | |
| | |

## MS2089A Instrument Options

| Option Number | Description |
|---|---|
| MS2089A          MS2089A | Site Master 4 GHz (requires Option 704 and 804) Site Master 6 GHz (requires |
| MS2089A-0704 | Option 706 and 806) Spectrum Analyzer, 9 kHz to 4 GHz Spectrum Analyzer, 9 kHz |
| MS2089A-0706 | to 6 GHz |
| MS2089A-0804 | Cable & Antenna Analyzer, 5 kHz to 4 GHz |
| MS2089A-0806 | Cable & Antenna Analyzer, 5 kHz to 6 GHz Time Domain Reflectometry (TDR) |
| MS2089A-0003* | Measurement Secure Communications High Accuracy Power Meter (requires USB |
| MS2089A-0017 | sensor, sold separately) 2-port Transmission Measurement Interference Finder |
| MS2089A-0019* | (Option 31 and directional antenna recommended) Channel Scanner GNSS |
| MS2089A-0021* | Receiver (requires GNSS antenna) Gated Sweep 40 MHz Analysis Bandwidth IQ |
| MS2089A-0024* | Waveform Capture (includes MX280005A IQ Signal Master |
| MS2089A-0027* | base feature set) |
| MS2089A-0031* | IQ Waveform Streaming (includes MX280005A IQ Signal Master base feature set |
| MS2089A-0090* | (requires Option 126) |
| MS2089A-0102* | Vector Signal Analysis Enabled (requires Option 126) |
| MS2089A-0126* | Real-Time Spectrum Analysis (RTSA)<br>Vision Monitor Enabled |
| MS2089A-0127* | Vision High-Speed Port Scanner Enabled Coverage Mapping (requires Option 31)<br>EMF Measurement AM/FM Modulation Measurements WCDMA FDD |
| MS2089A-0128* | Measurements LTE FDD/TDD Measurements (requires Option 31) 5G NR Downlink |
| MS2089A-0199* | Measurements (requires Option 31) |
| MS2089A-0400* | Accredited Calibration to ISO17025 and ANSI/NCSL Z540-1<br>(xxxx is the frequency option number) |
| MS2089A-0407* | Standard Calibration to ISO17025 and ANSI/NCSL Z540-1<br>(xxxx is the frequency option number) |
| MS2089A-0431* | |
| MS2089A-0444* | Premium Calibration to ISO17025 and ANSI/NCSL Z540-1 plus test data<br>(xxxx is the frequency option number) |
| MS2089A-0509* | |
| MS2089A-0871* | |
| MS2089A-0883* | |
| MS2089A-0888* | |
| MS2089A-xxxx-0097 | |
| MS2089A-xxxx-0098 | |
| MS2089A-xxxx-0099 | |
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*\* Refer to the Technical Data Sheet for full specifications and information on ordering time limited options.*